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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/724,933	12/01/2003	Sheng-Ming Chang	14077 B	3239

36672 7590 11/03/2005

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EXAMINER

TALBOT, MICHAEL

ART UNIT	PAPER NUMBER
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3722

DATE MAILED: 11/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/724,933

Applicant(s)

CHANG, SHENG-MING

Examiner

Michael W. Talbot

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 December 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 01 December 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Specification

1. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

2. The disclosure is objected to because of the following informalities:

Refer to page 1, lines 22 and 24, the two occurrences of character reference "cover 81" indexed in Fig. 2 should be changed to read --cover 81--.

Refer to page 1, lines 23 and 25, the two occurrences of character reference "steel ball 89" is not indexed in Fig. 2. It is suggested that the numeral "89" be deleted from the specification throughout, otherwise corrected drawings will be required.

Refer to page 2, line 9, the phrase "disposed on the utter diameter" should be changed to read --disposed on the cutter diameter--.

Refer to page 4, line 8, the phrase "positioning device will protrudes at the first space" should be changed to read --positioning device will protrude at the first space--.

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Refer to page 4, line 9, the phrase "so that the sliding base cannot moves to be" should be changed to read --so that the sliding base cannot move to be--.

Appropriate correction is required.

Claim Objections

3. Claims 1,7 and 10 are objected to because of the following informalities:

Refer to page claim 1, line 13, the phrase "also cover said inner bushing" should be changed to read --also covers said inner bushing--.

Refer to page claim 7, lines 19-22, the phrase "when the locking mechanism locking the screwdriver head by said positioning element disappeared, said body can bounces out said screwdriver head from said socket" should be changed to read --when the locking mechanism locking the screwdriver head by said positioning element disappears, said body can bounce out said screwdriver head from said socket--.

Refer to page claim 10, lines 23 and 24, the phrase "said elastic body can bounces said screwdriver head outside said socket" should be changed to read --said elastic body can bounce said screwdriver head outside said socket--.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites the limitation "the inner surface" in line 6. There is insufficient antecedent basis for this limitation in the claim.

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Claim 1 recites the limitation "the path of said screwdriver head" in lines 21 and 22. There is insufficient antecedent basis for this limitation in the claim.

Claim 1 recites the limitation "said screwdriver" in line 25. There is insufficient antecedent basis for this limitation in the claim.

Claim 1 recites the limitation "the outer edge" in line 27. There is insufficient antecedent basis for this limitation in the claim.

Claim 3 recites the limitation "the back of said elastic element" in lines 13 and 14. There is insufficient antecedent basis for this limitation in the claim.

Claim 3 recites the limitation "the inner surface" in line 17. There is insufficient antecedent basis for this limitation in the claim.

Claim 4 recites the phrase "disposed at each angle of its hexagonal angles are around its hexagonal circumference in lines 22-24. It is unclear as to claimed limitation as the sentence structure reads awkwardly. Please provide the appropriate claimed limitation in a more clear and concise sentence structure.

Claim 5 recites the limitation "the hexagonal angles" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Claim 5 recites the limitation "the structure of said concave positioning trough" in lines 2 and 3. There is insufficient antecedent basis for this limitation in the claim.

Claim 5 recites the limitation "said screwdriver head's hexagonal angles" in lines 4 and 5. There is insufficient antecedent basis for this limitation in the claim.

Claim 6 recites the limitation "the hexagonal sides" in line 8. There is insufficient antecedent basis for this limitation in the claim.

Claim 6 recites the limitation "the structure of said concave positioning trough" in lines 9 and 10. There is insufficient antecedent basis for this limitation in the claim.

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Claim 6 recites the limitation "said screwdriver head's hexagonal circumference" in lines 10 and 11. There is insufficient antecedent basis for this limitation in the claim.

Claim 7 recites the limitation "the opposite direction" in line 16. There is insufficient antecedent basis for this limitation in the claim.

Claim 7 recites the limitation "the locking mechanism" in line 19. There is insufficient antecedent basis for this limitation in the claim.

Claim 10 recites the limitation "said screwdriver head" in line 15. There is insufficient antecedent basis for this limitation in the claim.

Claim 10 recites the limitation "said screwdriver head" in line 19. There is insufficient antecedent basis for this limitation in the claim.

Claim 10 recites the limitation "the locking mechanism" in lines 22 and 23. There is insufficient antecedent basis for this limitation in the claim.

Claim 10 recites the limitation "said screwdriver head" in lines 23 and 24. There is insufficient antecedent basis for this limitation in the claim.

Claim 11 recites the limitation "said screwdriver head" in lines 7. There is insufficient antecedent basis for this limitation in the claim.

Claim 11 recites the limitation "said screwdriver head" in line 9. There is insufficient antecedent basis for this limitation in the claim.

Claim 14 recites the limitation "the back of said elastic element" in lines 23 and 24. There is insufficient antecedent basis for this limitation in the claim.

Claim 14 recites the limitation "said elastic element" in line 24. There is insufficient antecedent basis for this limitation in the claim.

Claim 14 recites the limitation "the inner surface" in line 1. There is insufficient antecedent basis for this limitation in the claim.

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Claim 15 recites the limitation "the both ends" in line 11. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 10,12 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hasan '872 in view of Eggert et al. 426. Hasan '872 shows in Figures 1A-1D,2A-2C,3 and 6-10 a screwdriver head socket (100) having an axial shaft (110) with one end having a socket (121) for inserting a screwdriver head (300), an inner bushing (180), a sliding socket element (181) and a positioning element (170) disposed outside the axial shaft. Hasan '872 shows an extended groove (122) inside and connected to the socket at a suitable location (bottom surface) for placing an elastic body (400) and an attraction body (420) capable of being fixed (425) on one end of elastic body. Hasan '872 lacks the attractive body being capable of attracting the screwdriver head upon insertion into the socket and the prevention of said screwdriver head from falling to the ground when positioning element is released and the elastic body bounces the screwdriver head out of the socket. Eggert et al. 426 shows in Figures 1-9 a magnet (25) inserted into a socket (23) for the purpose of retaining the tool (30). In view of this teaching of Eggert et al. 426, it would have been obvious to one of ordinary skill in the art to modify the biasing means of Hasan '872 to include a magnetic attraction shown by Eggert et al. 426 to provide a magnetic coupling force between the attractive body and the screwdriver head for ease of recovery following tool being released by positioning element.

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Claims 10,12 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chen et al. '755 in view of Eggert et al. 426. Chen et al. '755 shows in Figures 1-3 a screwdriver head socket having an axial shaft (10,40) with one end having a socket (11) for inserting a screwdriver head (50), an inner bushing (17) a sliding socket element (20,25) and a positioning element (14) disposed outside the axial shaft. Chen et al. '755 shows an extended groove (43) inside and connected to the socket at a suitable location (bottom surface) for placing an elastic body (45) and an attraction body (30) capable of being fixed (32) on one end of elastic body. Chen et al. '755 lacks the attractive body being capable of attracting the screwdriver head upon insertion into the socket and the prevention of said screwdriver head from falling to the ground when positioning element is released and the elastic body bounces the screwdriver head out of the socket. Eggert et al. 426 shows in Figures 1-9 a magnet (25) inserted into a socket (23) for the purpose of retaining the tool (30). In view of this teaching of Eggert et al. 426, it would have been obvious to one of ordinary skill in the art to modify the biasing means of Chen et al. '755 to include a magnetic attraction shown by Eggert et al. 426 to provide a magnetic coupling force between the attractive body and the screwdriver head for ease of recovery following tool being released by positioning element.

Allowable Subject Matter

6. Claims 11,14 and 15 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

7. Claims 1-9 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Claim 1 is the independent claim.

Hasan '872 is the closet art of record.

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Hasan '872 shows in Figures 1A-1D, 2A-2C, 3 and 6-10 a screwdriver head socket (100) having an axial shaft (110) with one end having a socket (121) for inserting a screwdriver head (300), an inner bushing (180), a sliding socket element (181) and a positioning element (170) disposed outside the axial shaft. Hasan '872 shows an extended groove (122) inside and connected to the socket at a suitable location (bottom surface) for placing an elastic body (400) and an attraction body (420) capable of being fixed (425) on one end of elastic body. Hasan '872 shows an outer edge of the positioning element pressing against a concave positioning trough (330) of the screwdriver head. Hasan '872 lacks the following:

(1) a ball hole disposed on the inner bushing in corresponding to the trough for placing a positioning element,

(2) a pressing flange part and a retracting flange part formed on the sliding sleeve element in corresponding to the positioning element so that one end of the pressing flange part presses down on one end of positioning element prior to insertion of the screwdriver head,

(3) the positioning element capable of being pressed and falling into the retracting flange part of the sliding sleeve element during insertion and after screwdriver head is positioned, the position element being returned to its original position by the elastic element force.

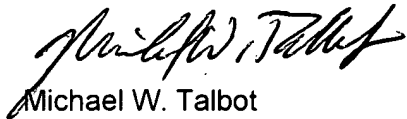
(4) an elastic element disposed between the sliding socket element and the inner bushing.

Prior Art of Record fails to anticipate or obviate the above claimed limitations solely or in combination.


8. Any inquiry concerning the content of this communication from the examiner should be directed to Michael W. Talbot, whose telephone number is 571-272-4481. The examiner's office hours are typically 8:30am until 5:00pm, Monday through Friday. The examiner's supervisor, Mr. Boyer D. Ashley, may be reached at 571-272-4502.

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In order to reduce pendency and avoid potential delays, group 3720 is encouraging FAXing of responses to Office Actions directly into the Group at FAX number 571-273-8300. This practice may be used for filling papers not requiring a fee. It may also be used for filing papers, which require a fee, by applicants who authorize charges to a USPTO deposit account. Please identify Examiner Michael W. Talbot of Art Unit 3722 at the top of your cover sheet.



Michael W. Talbot
Examiner
Art Unit 3722
25 October 2005



BOYER D. ASHLEY
PRIMARY EXAMINER